

AMENDMENTS TO THE CLAIMS

1. (Currently Amended) A thin film bulk acoustic resonator device for controlling resonance frequency, comprising:

a fixed body having a first electrode;

a driving body installed to be adjacent to the fixed body, having a second electrode, and moving toward the fixed body by a voltage applied to the first and second electrodes; and

a thin film bulk acoustic resonator for generating a resonance frequency and controlling the generated resonance frequency according to a change of stress generated by the movement of the driving body.

2. (Currently Amended) The resonator device of claim 1, wherein the thin film bulk acoustic resonator is located on an upper part of the driving body.

3. (Currently Amended) The resonator device of claim 1, wherein the driving body is moved toward the fixed body by an electrostatic force generated by the voltage applied to the first and second electrodes.

4. (Currently Amended) The resonator device of claim 1, wherein surfaces of the fixed body and the driving body facing each other are respectively formed to be a plurality of protruded portions and a plurality of recessed portions, and the protruded portion and the recessed portion of the fixed body and the recessed portion and the protruded portion of the driving body are engaged with each other.

5. (Currently Amended) The resonator device of claim 1, wherein [[the]] a protruded portion and the recessed portion of the fixed body and [[the]] a recessed portion and [[the]] a protruded portion of the driving body are engaged with each other by [[the]] an electrostatic force generated by the voltages applied to the first and second electrodes.

6. (Currently Amended) The resonator device of claim 1, wherein [[the]] surfaces of the fixed body and the driving body facing each other are formed to have a plurality of irregular structures, and the irregular structures are engaged with each other.

7. (Currently Amended) The resonator device of claim 1, wherein the driving body is returned to original status by an elasticity structure.

8. (Currently Amended) The resonator device of claim 1 further comprising an amplifier for amplifying the resonance frequency controlled by the thin film bulk acoustic resonator and for outputting the amplified frequency.

9-10. (Canceled)